

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-024489**Date Inspected:** 08-Jun-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** An Qing Xiang**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG Components**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector, Anand Upadhye was present during the times noted above for observations relative to the work being performed.

NDT

BAY 16

The following Non Destructive Testing (NDT) inspection carried out as per the ZPMC submitted notification number 09393.

Ultrasonic Testing (UT).

This QA inspector performed UT of approximately 10 % of the area previously tested and accepted by ZPMC Quality control personnel. This QA inspector generated UT report for this date. The members are identified as OBG Steel Barriers. The weld designations reviewed are as follows:

W2-SB18-001-019, W2-SB27A-001-050, W2-SB31-001-050, W2-SB28-001-019.

E2-SB28-001-081, E2-SB31-001-050, E2-SB38-001-081, E2-SB33-001-050, E2-SB24A-001-050.

W5-SB35-001-050, W5-SB38A-001-081, W5-SB30B-001-019, W5-SB39-001-050, W5-SB30-004-019.

W5-SB38B-001-050, W5-SB40-001-050, W5-SB42-001-019, W5-SB30D-001-081, W5-SB30C-001-050.

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W5-SB36-001-081, W5-SB38-001-050.

W2-SB30-001-081, W2-SB18-002-050, W2-SB27-003-050, W2-SB24-001-019.

W2-SB25-001-019, W2-SB18-003-050, W2-SB14-003-019, W2-SB29-001-050, W2-SB18-004-081.

E5-SB30-004-081, E5-SB32-001-081, E5-SB36-001-081, E5-SB30-002-050, W2-SAS-1-001-049, 050,
W2-SKYWAY-1-001-109, W5-SKYWAY-1-001-111.

WELDING

This QA Inspector observed the following work in progress:

Outside Yard – OBG Trial Assembly

This QA Inspector observed ZPMC qualified welding personnel identified as 066479, 066261 perform welding by Shielded Metal Arc Welding (SMAW), on Deck panel diaphragm to Anchor plate weld at panel point 125 of OBG Segment 14W. Weld joint is identified as SEG3020V-034. ZPMC Quality Control (QC) Inspector identified as An Qing Xiang was present to monitor the welding process. The welding variables recorded by ZPMC QC appeared to be in general compliance with WPS-B-P-2212-Tc-U4b-FCM-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 066156 perform welding by Shielded Metal Arc Welding (SMAW), on Deck panel diaphragm to Anchor plate weld at panel point 125 of OBG Segment 14W. Weld joint is identified as SEG3020V-031. ZPMC Quality Control (QC) Inspector identified as An Qing Xiang was present to monitor the welding process. The welding variables recorded by ZPMC QC appeared to be in general compliance with WPS-B-P-2212-Tc-U4b-FCM-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 066002 perform welding by Shielded Metal Arc Welding (SMAW), on Deck panel diaphragm to Anchor plate weld at panel point 125 of OBG Segment 14W. Weld joint is identified as SEG3020V-029. ZPMC Quality Control (QC) Inspector identified as An Qing Xiang was present to monitor the welding process. The welding variables recorded by ZPMC QC appeared to be in general compliance with WPS-B-P-2212-Tc-U4b-FCM-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 067520, 066019 perform welding by Shielded Metal Arc Welding (SMAW), on Deck panel diaphragm to Anchor plate weld at panel point 125 of OBG Segment 14W. Weld joint is identified as SEG3020V-027. ZPMC Quality Control (QC) Inspector identified as An Qing Xiang was present to monitor the welding process. The welding variables recorded by ZPMC QC appeared to be in general compliance with WPS-B-P-2212-Tc-U4b-FCM-1.

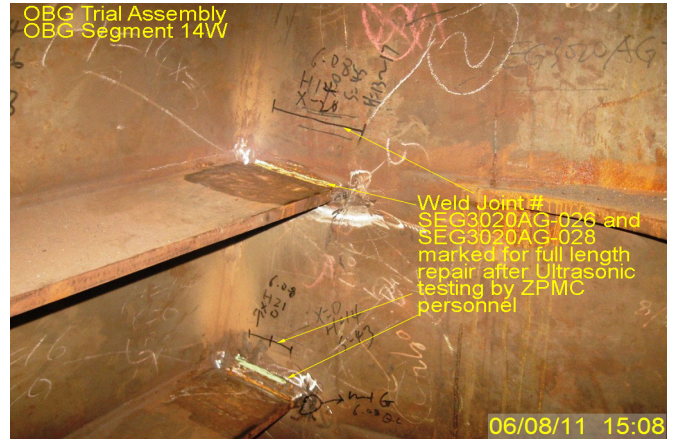
This QA Inspector observed ZPMC qualified welding personnel identified as 067588 perform welding by Shielded Metal Arc Welding (SMAW), on Bottom plate I Rib Fit Lug to Floor beam weld at panel point 128 of OBG Segment 14W. Weld joint is identified as SEG3020F-115, 116. ZPMC Quality Control (QC) Inspector identified as An Qing Xiang was present to monitor the welding process. The welding variables recorded by ZPMC QC appeared to be in general compliance with WPS-B-P-2113-FCM-1.

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This QA Inspector observed ZPMC qualified NDT personnel perform Ultrasonic Testing on Edge plate I Rib to Floor beam welds at panel point 126 of OBG Segment 14W. Weld joint is identified as SEG3020AG-022, 024, 026, 028. Weld joint SEG3020AG-022, 026, 028 were marked for repair by ZPMC NDT personnel. See attached picture.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



Summary of Conversations:

No significant conversations were reported on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, phone: 15000422372 , who represents the Office of Structural Materials for your project.

Inspected By:	Upadhye, Anand	Quality Assurance Inspector
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Reviewed By:	Clifford, William	QA Reviewer
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